

#4

FORM PTO-1449 SECOND SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1530.0220001/EKS/JMC/MJD		APPLICATION NO. 09/580,463	
	APPLICANT WHEELER, Carl J.			
	FILING DATE May 26, 2000		GROUP 1632	

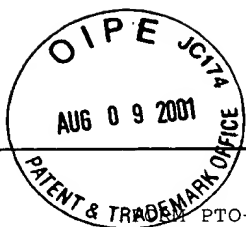
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
PS	AN1	WO 97/11935	04/03/1997	WIPO			Yes No
PS	AO1	WO 97/19675	06/05/1997	WIPO			Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
	AR		
PS	AS	22	Bhattacharya, S., et al., "Synthesis and vesicle formation from novel pseudoglyceryl dimeric lipids. Evidence of formation of widely different membrane organizations with exceptional thermotropic properties," Chem. Commun. (23):2287-2288 (1997, Royal Society of Chemistry).
PS	AT	22	International Search Report for International Application No. PCT/US00/14676, mailed September 29, 2000.

EXAMINER 	DATE CONSIDERED 6/27/02
--------------	----------------------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



AUG 13 2001

FOLIO CENTER 1600/2000
Page 1 of 5

INFORMATION DISCLOSURE STATEMENT

PTO-1449

ATTY. DOCKET NO.
1530.0220001/JMC/MJDAPPLICATION NO.
09/580,463APPLICANT
Wheeler, Carl, J.FILING DATE
May 26, 2000GROUP
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
PS	AI1	6,034,271	03/07/2000	Kwetkat, K.	562	565	01/09/1997
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
PS ✓	AP1	JP 61-130298	06/18/1986	Japan			Yes X No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PS	AR	23	Hirata, H., et al., "Small-Angle Neutron-Scattering Study of Bis(quaternary ammonium bromide) Surfactant Micelles in Water. Effect of the Spacer Chain Length on Micellar Structure," <i>J. Phys Chem.</i> 99:17778-17784, American Chemical Society (1995).
PS	AS	23	McGregor, C., et al., "Rational Approaches to the Design of Cationic Gemini Surfactants for Gene Delivery," <i>J. Am. Chem. Soc.</i> 123:6215-6220, American Chemical Society (July 2001; Published on Web 06/07/2001).
PS	AT	23	Menger, F.M., and Keiper, J.S., "Gemini Surfactants," <i>Angew. Chem. Int. Ed.</i> 39:1906-1920, Wiley-VCH Verlag GmbH (June 2000).

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



AUG 13 2001

TECH CENTER 1600/2900
Page 2 of 5FORM PTO-1449
INFORMATION DISCLOSURE STATEMENTATTY. DOCKET NO.
1530.0220001/JMC/MJDAPPLICATION NO.
09/580,463APPLICANT
Wheeler, Carl, J.FILING DATE
May 26, 2000GROUP
1632

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
PS	AL2	WO 97/31890	09/04/1997	WIPO			Yes X No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

PS	AR	24	Menger, F.M., et al., "Gemini Surfactants with Acetylenic Spacers," <i>Langmuir</i> 16:2062-2067, American Chemical Society (2000; Published on Web 12/10/1999).
PS	AS	24	Menger, F.M., and Littau, C.A., "Gemini Surfactants: A New Class of Self-Assembling Molecules," <i>J. Am. Chem. Soc.</i> 115:10083-10090, American Chemical Society (1993).
PS	AT	24	Menger, F.M., and Mbadugha, N.A., "Gemini Surfactants with a Disaccharide Spacer," <i>J. Am. Chem. Soc.</i> 123:875-885, American Chemical Society (February 2001; Published on Web 01/16/2001).

EXAMINER

DATE CONSIDERED
6/24/02

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



AUG 13 2001

Page 3 of 5

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1530.0220001/JMC/MJD	APPLICATION NO. 1600/2900 09/580,463
	APPLICANT Wheeler, Carl, J.	
	FILING DATE May 26, 2000	GROUP 1632

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
PS	AR	25	Peresypkin, A.V., and Menger, F.M., "Zwitterionic Geminis. Coacervate Formation from a Single Organic Compound," <i>Org. Lett.</i> 1:1347-1350, American Chemical Society (1999; Published on Web 10/02/1999).
PS	AS	25	Pestman, J.M., et al., "Nonionic Bolaamphiphiles and Gemini Surfactants Based on Carbohydrates," <i>Langmuir</i> 13:6857-6860, American Chemical Society (1997).
PS	AT	25	Renouf, P., et al., "Dimeric Surfactants: First Synthesis of an Asymmetrical Gemini Compound," <i>Tetrahedron Lett.</i> 39:1357-1360, Elsevier (1998).

EXAMINER 	DATE CONSIDERED 6/27/02
EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.	



AUG 13 2001

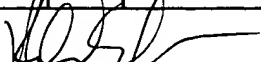

Page 4 of 5

INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1530.0220001/JMC/MJD	ENTER 1600/2900 APPLICATION NO. 09/580,463
	APPLICANT Wheeler, Carl, J.	
	FILING DATE May 26, 2000	GROUP 1632

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)			
PS	AR	26	van Doren, H.A., et al., "Mesogenic sugars. From aldoses to liquid crystals and surfactants," <i>Chem. Soc. Rev.</i> 29:183-199, Royal Society of Chemistry (May 2000).
PS	AS	26	Zana, R., "Gemini (dimeric) surfactants," <i>Curr. Opin. Colloid Interface Sci.</i> 1:566-571, Current Chemistry Ltd. (1996).
PS	AT	26	Kwetak, K., "Gemini-type betaine surfactants from amines and aldehydes," <i>Chem. Abstracts</i> 127:805, Abstract No. 127:249754r, The American Chemical Society (1997).

EXAMINER 	DATE CONSIDERED 
--	---

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



AUG 13 2001

Page 5 of 5

INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 1530.0220001/JMC/MJD	TECH CENTER 1500/2900 Application No. 09/580,463
	APPLICANT Wheeler, Carl, J.	
	FILING DATE May 26, 2000	GROUP 1632

U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA						
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS							
EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL						Yes No
	AM						Yes No
	AN						Yes No
	AO						Yes No
	AP						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

RS	AR	27	Dialog File 347, Accession No. 01916198, JAPIO English language abstract for JP 61-130298 (Document AP1). 1948 6/18/1986
	AS		
	AT		

EXAMINER	DATE CONSIDERED
----------	-----------------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.